

**OFFICIAL****PATENT**

Attorney Docket No. MTI-31529

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of : Ronald A. Weimer  
 Serial No. : 09/935,255  
 Filing Date : August 22, 2001  
 For : Method of Composite Gate Formation  
 Group Art Unit : 2813  
 Examiner : CHEN, Jack S. J.  
 Confirmation No. : 1208

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**CERTIFICATION UNDER 37 CFR 1.8(a) and 1.10**

I hereby certify that, on the date shown below, this correspondence is being transmitted by facsimile to  
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Date: 3/11/04Patricia Laye Pickens

Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, VA 22313-1450

**RESPONSE TO REQUIREMENT FOR RESTRICTION**

Sir:

This is in response to the Examiner's Office Action mailed February 13, 2004, in the above-identified patent application.

The Examiner indicated that Applicant had not properly identified the claims that read on the elected species and requires correction. The elected elements (which were made with traverse) are as follows:

- A-5: Specific partial pressure (i.e.,  $10^{-2}$  or less)
- B-5: Remote microwave plasma source
- C-1: Polysilicon
- D-1: Oxide
- E-5: SiH<sub>4</sub>
- F-1: N<sub>2</sub>
- G-1: Gate oxide/doped polysilicon/WN/W/nitride

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*Response Restriction Requirement*

Applicant hereby submits that the following claims are readable thereon: Claims 1-11, 16-23, 25-26, 28-31, 36-39, 41-49, 51, 53-56, 73-77, 80-95, 97-99, 103-107, 109-110, 112-120.

The Examiner argues that Claims 3, 16, 17, 30, 43, 44, 53, 77 and 112 are not readable on the elected elements. The Examiner assertion is in error.

Each of these claims recite a pressure of about  $10^{-2}$  to about  $10^{-7}$  Torr.<sup>1</sup> The elected element A-5 requires a "specific partial pressure (i.e.,  $10^{-2}$  or less)." This element necessarily includes a partial pressure to about  $10^{-7}$  Torr — which is less than  $10^{-2}$  Torr.

The Examiner also argues that Claims 54-56 are not readable on the elected elements. This assertion is also in error.

Each of these claims depend from Claim 53 — which recites a pressure of about  $10^{-2}$  to about  $10^{-7}$  Torr, and falls within clement A-5. These claims also recite the element C-1 (polysilicon).

Applicant respectfully requests reconsideration and withdrawal of the requirement for an election of a single element of seven different species.

Applicant further notes that the election of species is solely to facilitate an examination search, and that Applicant will be entitled to consideration of claims to additional species upon allowance of a generic claim. It is understood that if the claims of the elected species are found allowable over the prior art, the Examiner will expand the search to include other elements within each of the "species" groups — i.e., A-1 through A4, B-1 through B-4, C-2, D-2 through D-5, E-1 through E-4 and E-6 ( $\text{Si}_2\text{H}_6$ ), F-2 through F-4, and G-2.

Extension of Term.

The proceedings herein are for a patent application and the provisions of 37 CFR § 1.136 apply. Applicant believes that no extension of term is required. However, this conditional petition is being made to provide for the possibility that Applicant has inadvertently overlooked

<sup>1</sup> See, for example, Claim 3: The method of Claim 1, wherein the dielectric layer is exposed to the silicon-containing gas at pressure of about  $10^{-2}$  to about  $10^{-7}$  Torr.

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the need for a petition for extension of time. If any extension and/or fee are required, please charge Account No. 23-2053.

Applicant believes that the claims are in condition for allowance, and notification to that effect is respectfully requested. The Examiner is urged to telephone the undersigned Attorney if any questions should arise or further discussion would expedite the examination of the application.

Respectfully submitted,



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Dated: March 11, 2004

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